

Patent Claims:

1 – 9 (canceled)

10. (new) A gas turbine, comprising:  
a combustion chamber having a combustion chamber wall; and  
coolant tubes forming the combustion chamber wall,  
wherein each coolant tube is comprised of a plurality of tube segments with consecutive tube segments of a coolant tube being interconnected via an assigned adapter piece and the adapter pieces are implemented so that the tube segments can be connected by a plug and socket connection.
11. (new) The gas turbine according to Claim 10, wherein the coolant tubes are made of cast material.
12. (new) The gas turbine according to Claim 10, wherein the coolant tubes have a trapezoidal cross-section.
13. (new) The gas turbine according to Claim 12, wherein the cross-section of the adapter pieces transition to a circular cross-section near a relevant joint.
14. (new) The gas turbine according to Claim 10, wherein the coolant tubes are mounted on a plurality of common support rings.
15. (new) The gas turbine according to Claim 14, wherein the coolant tubes are mounted on the support rings via coolable screws.
16. (new) The gas turbine according to Claim 14, wherein the support rings are interconnected by a plurality of longitudinal fins to form a supporting structure.

17. (new) The gas turbine according to Claim 10, wherein each coolant tube is connected on an output side to a collecting chamber through which an outflowing coolant is fed to a burner.

18. (new) The gas turbine according to Claim 17, wherein each burner is assigned a collecting chamber and each collecting chamber is connected to the same number of coolant tubes.

19. (new) A gas turbine combustion chamber, comprising:  
a combustion chamber wall; and  
coolant tubes forming the combustion chamber wall,  
wherein each coolant tube is comprised of a plurality of tube segments with consecutive tube segments of a coolant tube being interconnected via an assigned adapter piece and the adapter pieces are implemented so that the tube segments can be connected by a plug and socket connection.

20. (new) The gas turbine combustion chamber according to Claim 19, wherein the coolant tubes are mounted on a plurality of common support rings.

21. (new) The gas turbine combustion chamber according to Claim 19, wherein the coolant tubes are mounted on the support rings via coolable screws.

22. (new) The gas turbine combustion chamber according to Claim 19, wherein the support rings are interconnected by a plurality of longitudinal fins to form a supporting structure.